# AUG. 22, 1949 AUG. 22, 1949 AUG. 22, 1949



H. R. Salmon, winner of the 1948 race

# WELCOME America's CLASSIC OF THE AIR



# The Goodyear Trophy Race—Sept. 3, 4, 5

For the third consecutive year, The Goodyear Tire & Rubber Company will sponsor the \$25,000 Goodyear Trophy Race for light aircraft at the National Air Races, Cleveland, Ohio. This popular contest is creating wider public interest in small airplanes and stimulating progress in their design and engineering through competitive effort. It is another Goodyear contribution to the advancement of aviation. Goodyear, Aviation Products Division, Akron 16, Ohio or Los Anoeles 54 California

GOOD YEAR





#### GOOD REASON NO. WHY WISE BUYERS PREFER

SANFORD AIRCRAFT When become down than

Dougles Sells, Screws, Seasons

Bushings, Woshers . . . ond All Tenes DC-2, DC-4, DC-6 Perts. - 32,000 up it Wariang Area . Use Our Production Foodhian



#### EXPERT PERSONNEL

knew the hunners and they knew

# Just Out for 1949 - Neur -Write Now!

# tages indicate the Bases State of the State

# Vol. 51, No. 8

S New Products 25 .. Il Air Transport . 36

#### Mecha III Medad

New Direct

Industry Observer

Rebert E. Hotel. Standiller Kulbrage Johnson. Corpo-Serving Street Service State Stanley L. Collect . Automation State Benry Later Rosed Norma

Service and Editorial Offices, 120 W. 43d St., New York, St. N. Y., Phone Laugane \$1000; Newcool Press Hidg., Westergran 6, D. C., Phone Newcool 3415 Demonity Name Burgany: Admira J. Mindes-Browny Bldg., Chicago 11, 220 N. Dismails Nass Review, Ashees S, Bloden-Bevery Billey, Chengs 11, 202 N. Medgam, Nov., Christola ES, Blanna Billy i Busco SS, Vendoude Billey Low Anglor M, Carlon S, Vendoude S, Vendoude S, Standard S, Sandard S, Sandard

Neus Servens London, Foris, Frankleys, Takyo, Hombey, Melheuren on Neus Servers London, Forts, Frankleys, Takon, Bomber, Melbenres de Jepress, Neuss Cry. Carrespondents in Arbens, Mescow, Egene , Storogles, Zatick, Batte, Debruscolare and more than 40 other office.

Destor M. Kerser, Susfacel S. Pucker, William F. Sucker, Subsci P. Ultra. Bries L. Berry

2 G. Johanne, Rainera Mahany, R. W. Merra, J. Stein, Philodolphia, C. E. Representationana, J. J. Brief, Galacter, E. E. Branck, D. Loury, J. H. Aller, D. Lewis, Chemical, L. J. Brief, Galacter, E. E. Branck, D. Loury, J. H. Aller

Marrier of Associated Strategy Physics, Fee, and the Antit Street of Combillion PRODUCED PRODUCED IN THE PERSON NAMED AND POST OFFICE ADDRESS OF THE PARTY. The state of the s

The state of the s



#### vital organs for America's 'round the world eagle!

Lacky Lady II - Art Force Poster erroted by Adlescounts. This highly specialized equipment

The shifty of AiResearch excitouchest encoldings in the reason.

· Whatever your held-Adlesensch turers of rotors operating an excess est positions savolving legh speed also wellable in continu consumos

automatic controls.

2. FLOATING CONTROL TYPING 2. ACTANTOS .... restrol flow of six

7. ACTUATOR-controls flow of AIOSFATIC VALVE-meeted temper-

An inquery on your company latter And said record primps areanne. Aitheoryth Manufacturius Com-





#### taking its pulse

#### at 20,000 feet

#### ... the Sperry **Engine Analyzer**

This fight engager is taking the pulse of a camplex power plant. Graph-like pettern enand proceedy enough to looked one from

ping, valve, magneto or other part in need · With its most Stratocratter and Consultapon-type Clincers our road with the engine 60% of delices reward by power plant troubles

dollars anneally by seppleating treatmederror trouble aboots a with electronic trouble

· Put American is the first surface to switch solve devaled expine difficulties ... one of many Sperry products desirand to aid con-

(Cantonick, Por America Alexens Inc.

#### NEWS SIDELIGHTS

#### Whodunnit?

Next by prestory estadated to be in USAF progressort It was this

in his Niverine devial of the Vivi introupted by committee counted

tity be withold until the commettee had all available evalence on the subject would be publish identified and called to the witness stand to test-fo on their Viscon size and he would publish a

#### Von's Philosophy

Industry observes will be interested

Fiscal 1951 Budget National Military Establishment in

ANATICH WILE Amer 23, 1989

Security Problem

Midden Establishment on the

Another procurated will fee well

#### Procurement Power

toy on water USAF programment do-

taces, and Lient Gea Howard A (Fesky) Grag, deputy USAF clast of Licet Ger, LeMay was USAF durator

Mu Gen Frederic H. Seath, Jr.

changes a day before Air Materiel Con-Audience Bress

#### D-16 prentantion busines have at

Among the regality spectators. Oliver

Moster, Washington reconceptative of Gen Carl Sparts, who will be salled

#### FCA Row

Service preception to the policy of constitution arange U.S. concernies ...

forcies siefines which are in



here a property of the property of path the word of the admi-tal path of the path of the



hove always incorporated Pasitive Overtrovel Staps and the NON-JAMMING

feature and meet all the requirements of specification AAF 41251 and D.C. Motor Spec. AN-M-10o.



TO MONTGOMERY STREET - HILLSIDE S. NEW JERSEY JAMES L. ADAMS & CO . LOS ANGILES & CAL

#### AVIATION CALENDAR

restreen, permiss by Chapter Spet Plag Co. Held Score, Twicks, 7-11-10th Society of Butch Ari

Sept. 1236-116 seasons seeing, lo

Oet 1849-00 NAS count mottry. Works Potence AFE Dietas, O

the MNw Lateral concides. No Bin 13.13, 1990-All American Air Me

#### NEWS DIGEST

DOMESTIC Find M. Gless will head a new Do-

National Aidness will seres ask CAS

de Wieden Ar sweetent has filed a

Mrs. Charles E. Tenres, USAF, von

tion was seen "within a few weeks" as

of Delease. The former communities graced of Air Motorel Communed in do-Give us end is succeeded at AMC by Lt Gen.

#### Fivreg Tiper Liee, Scrbool., Calif.

North American Assetion proceed

TWA his soled CAB permission to Greature Aircraft Engineering

> INTERNATIONAL Last Totales, Marchal of the Revol

A Colombian witner could and

India and Baltain have falled to agree CAA and CAB imperiors but week. British's such for appropriated directors











# first in U.S.!

WHO'S WHERE Ehrl Goes to Canadair

Canada: 144, Meetrol, he decided to expends to own account designs and has appointed William K. (Kee) Elect to lead

Promotions.

TWA his moved to R. W. Rammel to ph of market discree upon the streps ton of Enguest W. Stough, who has retion or Repulsed W. Stough, who his re-tiged. Expey has been in the Alaska office Jackson E. Beighle har been served mast and take manager of Silverky strengt diverses

of corps toolic F. S. Low Lot loca up-

Other Changes

to a superalizadest of Partie Associate Al-Fin division - Rolph W. Boother is acting cages traffic superactordest of Pin-

The B-ST fleight new soons and on entargest 18-12 with squar per resource of the B-47's in turbepets. The XB-52 will have two jets as at outleast wing motilies where the B-47 new corries only a single jet. Plea new is to power the XB-52 with the stant XI-53 turbolets being developed by McDonell is working on a night fighter vesses of the Buncher (P2H2) which is expected in he is service with the Navy by 1970.

INDUSTRY ORSERVER

P Romer's XR-92 or Artisticle hours amount for the U.S. An Years or

It Deceate its and amount to conduct our the Northean Euro jet Theire Winer U. S. Ast Force plans to continue experimental development of that type. USAF observer smerted the B-90 as a bareloss because its view experimental Flying Ware bomber was washed out well the RB-97 pro-

 Top USAF strategists appearing before the House Armed Services Committee configured AVIATION WILLES codies reports that the USAF cupable of unking interceptions in distance or bod weather above 46,000 O. Venner and the Northern Block Walter (E.67) are the best USAV Lebler testified that there was no indication that either the Builtish or

FUSAF generals also confineed easiler AVIATION WEEK reports that the primary fire in the VDT powerplant for factical signals was the moder realism at extrace altitudes over \$1,000 ft. USAF research ned norther Cortin Propeller devision, General Electric, nor Port & Whether had been able to develop a satisfactory solution to the problem of high abitude cooling for the VDT. However at atill his coeside-rible predication in the field of medium altitude transports where it is expected

with minimum feel capacity. Boring C-97, Dougles C-1244, and the Focach SE2000 are blody to use the VDT powerplant \* Easly burn in the Convex B-16 centered around the envises where realing difficulties were encountered over \$2,000 ft; the wing flap system which had to be indesigned, the lundring gras, and propelless.

## POWERFUL NEW GASOLINE ENDS TAKE-OFF KNOCKING

Guaranteed anti-knock ratins under all take-off

conditions. Good news for all prouse there! Occurs

Averton Gestlon's controlled take-off aeta-knock entrol

of over \$7 will virtually eliminary the twin dangers of

demonstrop and possibility of pre-unyone. Thus means amounter, querre, safer eske-offs, and loss wear on your

Big savings for engines re-rated from 91/98 fuel to 80/87

One leading aggraft engine manufacturer already has ap-

receiver from and cleaner with fewer overbooks

#### Improved Chevron Aviation Gasoline now has minimum

certified 80/87 rating New year meets need for take-off

anti-knock sating Below one Chrone Assesses Gaseline was not

and malitary grade facts had specified take off sunvital pasobre quality , and convers a definite need

sult of exhaustive flight tests in the popular makes field voletility, economy, vapor lock and other en-



AVIATION WERK, Assett \$2, 1949







#### New B-36 Performance Revealed At Probe USAF tells secrets to support bomber's pur- \*B36 locates of the Eighth Are

12-16-Production appropria

chase as Symington, Van Zandt clash,

Scantional new performance figures Couse poetral techniques developed. by Stritego Air Conversal reals: a range of 12,801 miles for the B-16 B-36 Types . The mend of most than 415 made

step nethout sensi refueling by a well bryand the \$800 rolle stark. \* B368 has flower 6000 rates above nouse recent convictory one \* USAF pleas to perchese an addr-fored 70 R-16Ds during Send 1950-51

model Jesturing four General tubout as addition to the mo \$3.16E\_Accommissioner per most of the B 16D, 79 on order

Cuts Emeron LcMey, who me-



THE REA ONE-SIXTEEN is sended engineers in the In one of the most elaborate comparative some ever ès the field. It passed all the rigid temperature in the

Elaborate comparative tening is the ideal way to select your pew personal place radio-ill you have the EVERYTHING IN ONE PACKAGE

 Faur-Course Seagon - Conststeem terring 200-500 km Budi-# Norber Searces - 75 mg marker signals received clearly

show memans, Speaker switch on front ponti. · laterydens - Fee large cohest, or two cockpess See the ONLIDITIES of your FCA



NUMBERS PROPERTY DEPARTMENT CAMPER IL



KENNEY and LENGY: Night and doc.

as evidence. Ven Zondt stated be had

offer as evidence but newspaper clay

tal their sources for the counsities

had one further evidence in addition to

"Not et all," Visson maked "I

evidence on the subsect be submitted chillrord the increases outloss to

\* These has been no consideration. Vision adul Van Zandt to de PEngroo Turcts-Recording charges

newspaper clippings. Viz Zualt than some Electric Co, when I cutred gre- not be intercepted and shot down by a

m 7946. (The letter reducted that

Too level USAF endorsement of the eMor views, is generally credited with LeMay as SAC recommunity. Kenney

► Expect 100 Back-"Ti I sent 100 B "The B36 m s night bomber I \* LeMer View-LeMey took the re-

a there said the bombs het." LeMay They deserved on the effectionages

#### B-36 Timetable—II

July 5, 1945-First E 569 flux powered by me 5950 by Post & Whitney Newspaper 1666-1764P reconstruence and came wells the newspaper 9 MC Sec. 6, 2949-USAY Series Offices found reconnectals become 99 additional E.Mr for Phytosic suppressesses and modeling all section \$1.00 hondes with

Feb. 28. 1986-Spring Officer Board securing U. Con. Labelect sections Max 2012, 1949-it hill files equipped with time Albeits [15] to-hopes on addition to the new nation streets

har IL 2949-Fast B 16D the suspend with CE 847 turbuses

Belly 78, 7985-2535 loan three strainer at \$2,000 ft, one harned and fell haded usiny using neverthic patch propellers

After under certain conditions but . Acid Trakes-He advected that at that if was extremely difficult to do so one stage the B-16 purpose looked so Piloscher's Chances-Kruney soil becroful in a bine sky when the wante

could mobally memorat and setteds Corner Cascellation-Foth Known B-16 during early 1945 received him. "It was a was decreen," Kenney higher, faster and further than avolody There is now no Navy plant that can

during its legital test period were 10,000 ft and that there." Kenner, torified "It was ampossible to tell

a consoletely different meture"

LeMer's views on strategic bombing

FIERBORY of Other Testimony · Babert A. Patterson, foruge socretary

1943 Be testaked that he closed the ded as a tell with Ton Gudler, then

. Gen. Vendenberr testified he sared

USAF communier, Donald Donals; of

Consulter's Winbaueton howings the B-35 USAY here admitted the I. The treft or failure of all charges

4 Evenue whether the DSAF is

AVIATION WEEK, Aspect 23, 1949 AVIATION WEEK Armed 22, 1849

#### Backlog of Military Airframe Orders

May 21, 1949

	Total		
Consolubited		245 (20,670	
North Amoreca		225,820,876	
			19.9
Lockbeed			
			4.2
			4.0
Notless			4.0
Republic			2.6

Fiscal '51 Budget Being Trimmed

Contemplated slashes seen holding USAF to 48 groups indefinitely. Resultant strategy shifts disclosed Further common cut burks on malitary. 1991 will be sed to responsibile 1926.

№ U. S. Grass Cobse—The 1226 share

shit, political telling pent of Johnson

seath, Books Aiplane Co returns with a mount health to the Britis program tucts. Other component, with their

(10% Common (97), Leckheel ► Conference Secrets - Secretaries

Synapetic and Mrs. Gen. Frederic

renovam easet in October, 1948. It

a 46 rappo caltur on USAF is more

beron meeting on Dec. 29, 1946, to L Cut 11 quebet groups from the

Sensor Officers Board backed LeMay, was maddying all B-16s by the address.

This decries recent concellation of

the Sense Officers Board Search on 22 B-36As to RB-36Es by some liter

Distribution of Airframe Backlogs

AIR FORCE ness "Tat . . 169 \* Exact scholle backing flavor are not wealthin for some of the smallest and are

• 58,948,000 with Nurtheep for 20 . \$6.531.000 officeated for production



your Resis Set with Here's the lifest searcer set for the story source drive Start-on "Marched Unit" wreaches, of the exact quality used by per-

security , , machined from fire after specia, trep Hanager Sockets The set includes 19 cools; an 18" row sain. per, reaches worsely, 5" and 10" exercises 7/16" so 1-1/4". Complete in a red connelpoon for additional sooks \$2990

PERS editored cross amount to the law on faith of separate by proc faith of the collection of the coll

Mail This Coupon Today)

Snep-on York Corpospher, 8000-M 18th Ave., Specific Williams

One Bell Union Returns to Work amount Rell Asyroft Corp. has brook Manager Associate

For more than two manths, Loca Vil. HAW-CRO, has had its 1750 branch to suspen the about Most thou

on Much 8, 1949. At that time he expensesce with tactical groups of

LeMay's recommendation and our

This worsey plus an additional SCI used to outshow an additional 30

manager of one on only at a total cost

chiract 100% curdown created the notet ikan underlige noode 188 men Simple Steps insure precision farmation of nirrroft skins and structural elements

> The purposes adventures of femure already have been recognized and accepted by major arrcraft manufacturers throughout this nation and







ITY OF PARTS . So rated that foreign andream Managers die stock Ideatical parts are thereafter racily aradaerd, as

SPRING BACK IS FLIMINATED Liber form PLAIN SKINS AND EXTRUSIONS ...

TAPERED SKINS AND EXTRUSIONS AT

RAPID PRODUCTION RATE ... Oxidaty

MACHINE WORKS, INC.

HE PETER MACHINES are applieble in a wide range of modely, towards and work



### Racing Man's Imagination to the Moon



No, the scene above isn't from a comic strip. More Musley It might be the Illustration from a Braco ad of 19XX . . . you insert your own guess as to the Pantastic? No! The only thing that approaches the fantastic aviation-wise is the tremendous progress the industry is making. In a few short years, speeds ournessing sound and almost unbelievable heights have

been reached. Aviation's engineers and scientists have been hard out to keen near with man's space-constant imprisetion. But they are doing it. And since Peaco manufactured its first hydraulic come 16 years are, our engineers have worked side by side with aircraft engineers belging to create many of the vital accessories making faster speeds and greater brights attainable. Reach the moon . . . reach other planets? It move



not be lone now!

#### AERONAUTICAL ENGINEERING



#### What Upper Air Means to Missiles Rand Report details some of problems designers have to face in

planning vehicles to operate at 300-mile altitudes or beyondwithin that stramphere were proxive res-

for speed and discussor up to alreader For passage, in terms of the air we The cath is personaled by a layer

broarbo: this beart is about 21 ms. for

plat its figure or normal it would be still the still still

the absolute arralage ording will full

pendence spon fight speed for produc-

Power of the recent in descendent or

plant is a function of its more! Colon-P V-2 Date-As seportant "limit of the

F'Lind' Value-For a more blical

Extracers are finding by theoretical

les and reposition of the heating docarth's absorbacted has at an abbesto

of tables normood as a shandard about These same data, tapether with mh were board upon a variety of bolloon

Tourstoff invasts modered men-909 . mourant, 2002 in 1tg and des 3,000 ft., using Tournshit's formula

craft, both siloted and nilotless, for tend V-2 and other manifes about or describe to know the conditions of

Froign Reed Origin-Exemination of value around the carth in a manner

AVENTION WEEK, August 23, 1549

records of unfery and publishing.



HYDRAULIC POWIEMENT SINCE 1921

values obtained depend wholly on the arranging the ramed any little of difficulties accompanying the design of and be applied of the process topic

Therefore, before reiselle design cal-

outer space station would have easy

However, pacsent equipment commits ► Calculations to 64,000 ML-One of oil antil higher-projecting rackets are \* Absorphere Regions-At the morel of = helpful to divide the attaconhese sales and were on much ad which contain acts. of conditions egist. From say level to

\* Tencenter, Corporator-Vernica

905 Rt. and remagn at thes value to

these key needs see plotted by selectatmosphere falls from 59 ft at au level 20 - 679 w 15 117 0 It remains at = 67E from 35.332 to

F. Leve Condition-Computeton of str. 2.90 x 32-" slors/ftt, dewity ra-

are selected and vanctures between PHeffer Review-Reveal the P. how AWATION WIRE Asset 23, 1515 -(1) that there is a liveting rance for

iese two.

It was noted that the temperatur shoot 17,500\$ , and the value is taken

to metales surge arrows at la sund

quite another on on stors he reflecte

sensition (1) the follower stravelucie conditions out calculated to exact at on shitude of \$526 cm. Acceleration.

to be an diffusion combinator. This oc-

health of the atmosphere of \$500 mg

4 316km, Chrk B. Acrefrontin of sect red Ronger of Application of Validace

11 Debt. Wilter 5 Steelard Afron

® LEWIS ® ACCESSORIES FOR USF WITH TEMPERATURE INDICATORS

ADMENTABLE RESISTOR ANSSIGN

developed by Green andy on 1965 as a post

THE LEWIS ENGINEERING CO.

The Flight Research AU

CONTECT everyties see the prescler offering

The CAA required APC

Write for Bulletin Art7

INGINISERING CORP. PICHMOND. VA

AMERITA.

Spanish Airliner

descript 16 measures Dandas DC 5, 6

BONANZA OWNERS: A NEW PERFORMANCE Production PW is locked to platform and modfol for threat texts by Communications. - NEW PEONON

#### Iet Thrust Measured On Ground

Floating platform, "Thrustorq" unit, used to measure throat of Gramman F9Fs running at full power.

A Season and a state of the sta abless engagers to steading process, manuscraped of the set count alone

developed by the Coursess Arrest under setted operating conditions and through which each anotaging model of the "Punther" rount non, thes plat-Figure Mercard-The device was de-

AVIATION WEEK Assur 22 1505



chamber by the pagest valve, which Lucien is the Horse "Threshan. which 'takes' and manager the shoe Direct of the plane is avoked to ere side of the duchrassa, and arto a direct recentre of the threat That in pailed my a range onto the venera-

where of the Dunber, With a then p saids, and the bolt locked in alor Dis advanced rallifes the The Thendorg was developed as

conservated bandson. The devel

C-47 Gross Upped

world of Deaths Divites (C-470)

HIST LOOK AT THESE FEATURES &

Street house density oppositions of Publishers, Fig Fifth Assessed, Name Total St., Street Test















CHECK THESE OTHER ADVANCABLES. silver Connector . No additional values received WRITE DIRECT TO THE RALES DEPARTMENT





#### NEW AVIATION PRODUCTS nit lose life-oury 1000 he at 200 ft



Switch-Lamp Unit

n a see discussed one he complete with

Gyro Sensing Switch Electricity as match offered by

Combusters mobbetton moreon- vge his fast contacts possesting four true A704, decriesce by Robert Hetherwater & Sen. Inc., Nanco Hd. mother is writed in hilled from level. two and exhaustebase system. When theball on (07 dec decisters on our





or huliding of experimental phones for the Army and Novy, religibility

of construction is a most. FLERLOC, with its resilient, flexible seameets comprising the "self-locking" degluss, won't shoke loose even under the most chattering vibration. And FLEXIOC has unusually uniform torque, within a few "meh lbs.". Made in one solid piece. in "Wild" female on see" on the "secolor"—in NC and NE found series. ACCOPTANCES RATION IN MINISTER OF STREET, STRE Write for your copy of the

FLEXUOC Catalon. (C) STANDARD PRESSED STEEL CO.



Nuts Speed Assembly

Tough Sheet Packing

lead) 99 percent, bend (\$80 dex)

developed by Foring produced by Hydro-Aire

Hudra-Ave. Inc., Burbank, Celif. | 500 Fifth Ave., Nao York



#### PRODUCTION

#### Getting More Profit-Via Research Devising new fabrication methods for aircraft special materials can lead to additional lucrative production.

housing metallistons on recognosting \*Net-It reads Non-Gran mets for Post & Wheney back to 1925. A

► No Experience-Contracts for solve raider were secreted to American The latter subsequently withdraw bu-

AVIATION WHEE, Asset 22, 1915

That the conference ambient was a difficult one is further endezond in that

#### Permanente Buys Aluminum Plants

\* Mead pleasures aphortics plant serving from \$50 to 200 for the river



\$1, come and of \$1 in county of \$1000 med. while new States Section segment on texture to the reseasoir order but bendleton used used which existen resource and partially of Christa Wright Com's Colors, other data. Healthbours are were to you hear obsect. Equipment (control) adjusts college- next store described and research when control tion stend respecting services one stage, some facility is opening

#### Latest Air Force Bid Awards

L. E. Ellevice Smooth Co. Frankling, a tel of EFTGAL Process, before the Sta-Septe Com. Sufficient on a self of EAI real Control Review Box. Septe 1. For lone & Marco (48-21971) Commence sharing - American from to remaining the Districts N J on a loc-

rageni (de 1918): shadou-Episalor Rosa di Handa Mirolani Culli, on a n and Tarre Froducto Ros. a a bid of 20100 20 The Property of Proce. They have no a hist toffeeters pre-mote

ch relays of tomorrow...

For opera parts for T-17 and T-11 absorpt Powted-month or Chicago as a bid of

Titl. Soc. Medical Comp. or a bid of the sod Hamilton's 200 Co., Kunner, 7, No. on a bid of 5350 FT Introduction 185-64001 intelligent in Visc Co., Burbank, an No of 4100 by some gainer (40-9484) | Sween Brists (40-9484) | Sween Brists (600, 180, New York, an led at 100-100 ing, place, and convertely, and send total The Herritary Mile Co., Name City, No. of a Md of Electron Per Miss commands, 148 Miles (1970) by Station within Corp., 32 September Chill, on a Md of 137 Link For Address (SE-400). Bellyon Piconer Live, Decidle Asia Inc. (123, Visitions on a Mil of 246,202 Authorated (10-700)

Authorated (10-70 Wassen in Co. Electune), if Y on a ball of \$4740 ft.
For tage (46-700) For Horses pre-terry: Timbs Connerwells Horsey Oppy, Con-certific, but, on a bid of Marie In

For transmitters (40-5471);
Differentiation Die Rendis Arterion
Chris Veitrieren, en a Mit of Middel Hi Invitations to Rid

Hadle Equipment, 2-2 Horse, 168 bridgeton in 18-22 here date Any 1 delivery in Selfeniers, TV code, bill invitation No. 10-28. Note data Aug 15, delivery 163

ware designing modelsing and developing elements of sport of relies for thousands MY AAP approved substances for AN artisp. New druges and modificances are in a Blakes maderly of expecting, meetals set worknowly some long, rule, effects and dependable server FOR BITTER CONTROLS THROUGH RETTER SHLAYS-DISCHY LEACH

#### Torrington Needle Bearings reduce deadweight in Martin airplanes









shall for un larer max, no other elements are required.





Analis . Salasaral Beller . Second Beller AVIATION WEEK Associ 22, 1015

Dreams Dellar . Pull . Named Authors

IN DESIGNS OF TODAY!

# IR RESCUE

added a new ability to the versatile Fairchild Packet-successing the impostence of



#### SALES & SERVICE Rvan Cuts Navion Price \$1000

Move follows company policy which calls for decreasing gross profit per plane to increase gross sales.

Mar Be LateuCoving at a time when chased by several compenses for feeder

soline operation, the Ryan cut may be strain comparate consistry posturing overlocation contains have already so.

follows a policy of decreasing gross profit per plane to recreate rater rol-P.Poll From Cut-The manufacture available at the lower price," it was an

cardided with creating upped of 150



CLEVERLY DESIGNED Asshe Lift planear litter shows extended to 74 in. . . . .

Collapsible Litter

bulance has been unedified to fit ento-

#### Rick Bid Wins A contract to petrol the 1500-en-

realized which true until the end of 500 hr. Evit occursos, so addition to The Rick company now owns two

#### Clinic at Detroit

representative Demonstrations and



Acrong Tedicates that nethelaser

#### AIR TRANSPORT





#### Canadian Jet Transport Flies

Craising speed of 430 is quoted for 50-seater four-jet craft. Project was financed by Ayro and povernment. Between lead in set transport dough . effectively" during the 60 minutes at Auto's sleek 50 processor XC 102 Jet P 432 Mpb. Crusing Speed-A than

When the plant's design was first

Pilot Security

Carrier's power to five is safety aid. ALPA NAL referee rules



member Muston G. O'Neal, Ir. fol Poer Indepent Seen-The neutral seferre decided that the accident was

because deadlocked ALPA utlate yes, stoping out until November.

corners on California (Assurance Wests. TWA. Capital, WAL Haine Black Ink There more actions. TWA. Carollal AVENTION WHEE Asset 22, 1949.

Western Forms Intrastate Line

systemicarret in suffice hartocy-ra caucigracy board applicated by President Transac crititized NAL's labor ner of failure to so hall-way with

ALPA in trong to settle the O'Neal

degree of case in a matter of policy to

The neutral referer noted that the

vahili integet. The fight wared be position of first print is in the best trusted to them, but they size real

but here a case of a weekgage quent-



As a supporture to their solube These visid sircosts "Isses" every temporary overloads but clear

ruption of current as that leg of the electat. The close on onlinemon of these hoshly account Lamours, suffice asher thermal devices is bittle offected by the varieties of surleggs Limiters and managings are offered for 50-vals and 120-vols DC; Burnely Lusiners meet the requirements of USAF Spec. Nos.





properly installed in a fire same you know for new that on alarm means rate. You can depend on the Edino System.

simple. It is used by all but two of the region wishings and but been conserved by the U.S. Air Ferce, U. S. Nevy, and conferms to CAA re-

157 Lekeside Avenue, West Orange, N. J.

INSTRUMENT DIVISION THOMAS A. EDISON, INCOMPONATED

AYLATION WEEK, Asset 22, 1945

of common finishing the first hold of 1949 - mored to \$45,842,778 list year. Passes \*TWA reported a system under our . Capital Aidines proorted a net realit 1949, the company carpol \$1,021,445 of \$791,600, or \$1.65 a close of com-

June 30 was the highest same June. As of June 33. Western's RFC June Idlewild Service Up

Port Authority is now incretistian

Prototype Bill

CAA bend disclaims need for sovernment aid in new designs.

The arried services find it a recountry

AVIATION WEEK, Asset 22, 1969

produce new more efficient transport Restrict speaks at an executive session

Covert will not have sufficient more to ► Terbogrep Progress—Special attention

Committee Approves New Mail Bates



AS IN YEARS PAST, the Transmen Trophy Rice will be a force even of the National Art Rices . . . . highlight of the excess Sunday program. The Transerman Trophy Bace is an annual tribute to svinten's consised progress . . . progress in which the lightweight, fast, ensystems SPEED NUT" brand

TIMBEDMAN





your The House has strongs approved

addrawal, becomes law. It is allocated vetrally identical with United's project

More DC-6s to UAL

Show Cause Order

Last March, CAB and the corporate

Bonanza Fleet For Central Airlines

City, Oblidence City to Wichita, Kee, D. Worth/Deller to Toles

to Amerika, Try: and Fi AMATICK WEEK, Asset 23, 1549

Yellow Cab Gets

Cidenal Artines is considerate so-Government-owned TCA received with DCAs, whereas TCA unbable

P.DC-to Freducto a result. Calcassi nance Corn. for a \$3.5 to \$5 swiften When the Canding-U.S. six tenspost agreement was signed, Sagraund

Work/Delia to Tourkon, Tex/Ark or Bongano in adaptive between

Aboungest two the stone energy

Colonial Considers Buying New Planes

payors 5) calibra to additional sol-Colonial has relead CAR for New York Wedgeston, New York-Bulblo

world necessarion closely affiliated with

ANIATION WEEK Asset 22, 1949

Purdue Approved Operation of a scheduled linktuises:

the Perific Western plants, where every known type of near is

They Use PACIFIC-WESTERN

GEAR ENGINEERING obsessed of transmist. and wildrey shough On Married ungineering or production persons A NATIONAL HEADQUARTERS the Podific-Western plans have become a national headquarters for designing and producing precision-quality aircraft mechanisms.

GEAR ENGINEERING When is the minimum weight for

What type of pearing, switches, distales, etc. will give the

exact characteristics required of an assembly? These are work with doubt. Their expensors is at your service THEN GEAR CUTTING Where can file type of geor both like this? How can a shape like that be machined? The envisor is straightforward; bring your production problems to

CATALOGS AVAILABLE



New comment is only one of savan basic look for American Actines, Inc. Our current This readable, 24-oase Report is the product

KIDDER, PEABODY & CO. 17 Wate STREET, NEW YORK 5, N. Y. Blor Cover Report on Assertan Artings, Inc. I am

Address.

CAR said the service will offer a and demette rame inflic mand 140 PER American-A PAA Strategrature

#### SHORTLINES

Councilly stated at a recent CAB here-

stallation was about \$75,000. Corp.

CAB has no reffrar sminn through disapplies of

Next 5-Streets on review to Los Table. Purgoont trees they I clouder of arrive his pard CAR for a former PARG-Configure - Decorping of the

From St.—Housing on Signated of Purish All Littles proper [Durbot 194; et al) det. 3.—Similar on Higher Tool Co. com-lete of TWA. Fortpowel from Aug. 15 (Pro bet 3716)

CAB SCHEDULE

#### SEARCHLIGHT SECTION

DAPOTHERY - ALEBORIS OPPORTUNITIES

#### Lockheed

has positions available RESEARCH ENGINEERS In PHYSICS and

**FLECTRONICS** Beer speaker was he was who here although offeners shifted the resembles to although the contraction of the present the belowing qualifornical

2. The years industrial or graduate 3. Activ to price and accident institute any names the sense advanted to the expected date. The enversationments of Legithers's names of their barrier compiled in bearded croppy grafteld falory

I are not reharmled and word the small registers label along many a sequence of Engineering Manager, Ford Steller Ster St.)

SEARCHLIGHT SECTION @

#### We're glad to say that more heads are Nodding now...

When this company first talked of a 100-engine hour warranty on corrected surplus engines, tengues coulinsed, and experienced pappliers shook their beads. They said that appreton would aluse our engines, content that if they failed Steward-Davis was committed to renince there. We thought differently.

True our wavenests second ambition is ensured to the usual overantee of "workmanship and materials." And abviously, too much abuse of 3 could force us to withdraw our published automateur. under a cloud of suspicion which would be destructive to our regulation. However, we decided to count upon the belief that most countries knew too well the cost of conceled schedules and unnecessory engine changes to misure on engine, regardless of any vergreety. We also believed that most appretors were smally to admit that each engine follow must be judged on its own merits before the responsibility for it could be loid at the door of the overhool agency. Lastly we decided that parrators everywhere would remort a freely percentages of responsibility to a surplunorket when most merchandise was being sold without manuse. years, and seeing each of our few engine difficulties brought to an contential conclusion with our outcomer, we are of the outside that we are receiving the co-operation which we must have other our

now emplied to general on increased responsibility for the nex-Therefore every Steamed-Devil: 9-1839-92 Commercial Constant sold to an airline observing U.S. Civilian Aeronauties Administration handred hours of womented operation. Fastfor enformation along

STEWARD-DAVIS + 19701 S. WESTMEN + GARDENA, CALIF.

#### @ SEARCHLIGHT SECTION @

#### American Ainmotive's R 1830-92 GIVES YOU MOST SERVICE AT LEAST COST when you use American Airportur's fully goor-

We recommend and comply with 112 of the 147 um fully wanted under American Alematica's

Quiter today! R1830-92 OVERHAUL

AVAILABLE DAMEDIATELY

830-92 CONVERSION

NO CONTRACT NECESSARY Pewer vision throughly inspected by experiand authoritis completely everlooded . . .



MANY INTERNITIONAL VICTORY

American Ainmetive 1.0 0000

West - 0.0 00004

TEST FOILIPMENT GENERATOR TEST STAND W. S. Electric Model Office Std. NYDRAULIC TEST STANDS

SYDRAULIC PUMP TEST STAND MAGNESTA INSTRUMENT

FIELD TESTER

Nucl. Entrieses (Electronic) SPARK PLUG TEST STANDS Switch Engineering Model Hill? SPARK PLUG CLEANER HMITTE

Twee "D" (WEAT STREET STREET STORAGE RATTERY SHORT CHROWL TESTERS Bert Steedard, Hotel Chan Der, sintre Deie Familiered on Reguest

MASCO, Sac. 5001 Ended Ave Chrystend 3, Oaks

> C-46 **PARTS**

Loading Geer Assemblies & Parts. Control Surfaces, Corel. ing, Sydroules, Sasters Don polices. Accessories, Bruke

Others C. E. MATHEWS, INC.

SEECHCRAFT DISS A bacatral posture monattra steplene.

Note-Timbled where forest, or formed and is comfort condition, World overst Resilvent \$5.11 is tools. PAGE AIRWAYS, INC.

ANIATION WITH AMERICAN

@ SEARCHLIGHT SECTION @

EXECUTIVE AIRCRAFT ET. LOUIS REMMERT-WERNER

SAFE FAST TRANSPORTATION WHEN YOU WANT IT

Innexet Womer, Inc., excepting accords contact of the nation, effect the only service in the St. Levic COPYRIGHT IN THE CASE ADDRESSES, ADDRESSESSES, AND CONTROL IN CONTROL IN SECURITY DAY ADDRESSES. TO WAS A THE CONTROL IN THE C

LOCKHEED LODESTAR (Pictured) Medica has been special to make the one of America's South stray's payors. For one processors

Middleg led Joss appeal to mide the one of Anni-Col's Sent engic copyint. For may merceptive in a learning better, with Sentential some and enter-Collection sentence and sent-Collection sentence and sent-Description should not enter-protein with Fiderplay, a leg option, colors made, the sent-lead sentence may write our more, not for the collection of the fiderplay of DOUGLAS DC-3 AND C-47

These planes are a weating your specifications for conversion new a Hyang office, selections, club cross, seem passes are a manage year apocinications for conserving new a speng manage, solds recent, olds recent, angue provider have your Chair provided by the statistic left-rail, and the about the corps are manage. It was used whom as in This is to the own to the state of the state nows, a you upon must so b. This is the way to six or a qual weekend two to for every please for some plant billing. Work, was or please your expensions of the sited amplies and bill at gow you or

SPECIAL ENGINES TO IMPROVE PERFORMANCE Your Lockhood or Despite can be given practic torbuy and increased performance—with higher gargies, celling prepared normal sale of ellish, feature remedia speed, and shortly toknot? remove a Essential Wisser compilation of new Fare & Wissers \$100.00 pages—a soil, appearing to the compilation of new Fare & Wissers \$100.00 pages—a soil, appearing to the compilation of new fare and the compilation of the compil parameters and firstless that will now him dividends to very flows aftenness and nesses of rainet. White

REMMERT-WERNER, INC.

CAbout 5425

St. Leuis 21, Misseuri CAberry 5425

SERVICES CUCTOM DESIGNED FOR EXPOSITIVE AMEGRAPT

AVIATION WEEK, Assur 23, 1945



sharoge or export.

Ariations Most

FOR SALE! DC-4 (C-54-B-DC) 50-PASSENGER AIRPLANES

\*125,0000 and up

a England and P. S. W. B. 2000, 12 (250) 250 England

. Becantly removed from scheduled passenger service · Standard sirling interior.

"AS IS" MUMICIPAL AIRPORT TUUSA ON AUGUA Address oil impaces for AMERICAN AIRLINES INC.

ALGO Disease Engineery, Arterio, Loan Direct, M. T.

Your inquiry will have special value . . . d nor marries the sequence, when writing advantures. Heltwelle, the publishment appropriate  $\theta$  — but, more experient, it will decidly use as one of the neet that shortest would be reach with this message — and lady to make with BRAND NEW INSTRUMENTS BANK ANTENNE METREMEN PART CARRATES

WUX Flushing, N. Y. INSTRUMENT ASSOCIATE

CARLE ASSEMBLIES

for DOUGLAS AIRCRAFT Complete Stock on Need Dis MOSE ASSEMBLIES

A. J. MOORE CO. 241 Tra 404 Flore Waltin Editi

**RONANTA** 

PRICE SASON 122 Odfemben Beidles

SCHOOL

ANIATION WITH Assur 27 1985

ADVERTISERS IN THIS ISSUE AVIATION WITH ... AUGUST 22, 1949

Gear Genii

We've eat addled by Aladda ... we can prove our studen to produce the firest in precision

Confedentially, we don't go old "lenge," we see the best comprent, bedoed up by skilled cultures and a 45 year expe-



#### EDITORIAL

#### Unforgivable Injustice

After a week's infensee hearings on Copied HB, Congroussia Janes Van Zaloffs operated justification on the B-56 was not a documen homothy served at ...

Mr. Synangion mightly feel, on he and after Mr. Von
Zeolff's enderes colleged, that the accomposes better

wood the indical.

We have by a graphism does Peccaptum, and a
Venil Rosen effect, record team energy calculations
when Rosen effect, record team energy calculations
when Veger reserve containing garding the 3 section of the contraction to some of insight and delay between the Veger reserve containing garding the 3 section of the contraction to some of insight and delay between the Veger reserve contraction to some of insight and delay to the contraction of the Contraction to the Contraction of the Contraction of the Contraction to the Contraction of the Contraction to the Contraction to the Contraction of the Contraction of the Contraction to the Contraction to the Contraction of the Con

"The tissing of the attack upon in could not have been more ingreatently arranged of these had been a deliberate pillar to weaken the Au Force position with regard to the famal 1950 budget now here Coupens and the final 2951 budget now in pitpersisten within the Normal Military Exhibitions.

All of the man not be considered argenment against a full mappy into a matter of viril public internal, Assarine Warrs in long ago in lair. Marth on this page registed second officence of epision smeng distangativel amountated engineers on shiftly of the reperlectates no do what the Aer Force channel for it. At this time we signed an imprintal new layers to perpet to be seen that time we signed an imprintal new layers are seen of the time of the professional seen and the professional professional speciments, the Aer Force channels will be made professionate figures, some of which are minoculates. It was the that the Horee constitute will still

But the and problem the committee must study at: What kind of an air war should the nation plan? How but one we intolement that plan?

deem as unmartial test advisable

The American people certainly dearner the fieth about a plan, within centum limits of necessary secrecy. Mr. Jehrson and Mr. Syringston would be the finit to conceive thin. But the pennitated coverlation of insurances and make transportant of the Utriand States in a deplanable openighound for any such language. Mr. con world instrumed in carrier in sure reflexion. Mr.

Van Zandt has dealt the country, sispower, the Air Force, and the Navy, an unforgosible injustice. ROBERT H. WOOD

As the Washington Fore smotted chimnelly. This name aspect of the E&B reverligation was invested since a E&B reverligation was invested some the faster because it was no firmile generaled. — The attracted to recognil. My Suggraption statemen in looking the E&D control to eliminate of the control to experimental theorem to the control of the control

Under pressure, however, Mr. Van Zandt finally con-

a Floring praerition from an automorphic recognitive

and on newspaper elements. Mr. Van Zandt also dessed

Mr. Vienou, however, pointed out the congressmen's

speech in the Congressional Record had reported

congueronan began to read from a newspaper column by Desten Walker, as the New York Darly News, and

from another story in a Philadelphia newspaper. The

Navy, completed Mr. Van Zandr), evidence,

that he had actually made any charges whatsoever.

The House Armed Services Committee charges.



FUEL METERING SYSTEMS and COMPLETE LANDING GEAR

BENDIX PRODUCTS

Creative Engineering that Helps
American Aviation Lead the World
Exciting complex landing gran for the world's
language land plane, as developing for interacting you
come for the latent pert led pane of the late Rendam
Products Deviction of the grant Enails Aviation
Corporation Products and the grant Enails Aviation
Corporation Products and the grant Enails Aviation
Corporation Products and Conference of the form of the most and
marketest that Aviative course the yount Enailed the lated

Engire builders and surfaces manufacturers are ucged to let the matches combination of engineering experience and manufacturing facilities halo solve

#### MORE OPERATING TIME !

Allison aircraft turbine engines provide more time in the air,

less time on the ground. Allison developments have increased

the time between overhaul from 15 hours to 300 hours.

J33-A-23 Turbo-Jet



Allison

Builder of axial and centrifugal flow turbine engines

DIVISION OF

MOTORS

Indianapolis, Indiana

Allison jet-powered airplanes:

Lockheed F-80 and TF-80 Shooting Star Republic F-84 Thunderjet Grumman F97-3 Panther Northnop F-89A Scorpion North American FJJ Fury Lockheed F-94 Connolidated XPSY Northrop R8-358 Flying Wing Martin P4M-1 Mercator North American Al-1